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This document consists of 3 pages  
No. 9 of 11 pages, Series A

CLINTON ENGINEER WORKS

CARBIDE AND CARBON CHEMICALS CORPORATION  
URANIUM CONTROL AND INSPECTION DEPARTMENT

REPORT NO.  
KZ 1147

KZ 1147 9 A



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PLANT RECORDS

T AND X MATERIAL BALANCE OF DESIGN AND DEVELOPMENT

Frank Mills

Date of Issue May 15, 1947

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Carbide and Carbon Chemicals  
Corporation, Operating Contractor for  
the U.S. Atomic Energy Commission.

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INTER-COMPANY CORRESPONDENCE

(Insert Name)	COMPANY <u>Carbide and Carbon Chemicals Corp.</u>	LOCATION <u>Post Office Box P. Oak Ridge, Tenn.</u>
TO	Mr. G. T. E. Sheldon	DATE <u>May 15, 1947</u>
LOCATION	K-303-7	SUBJECT <u>T and X Material Balance of Design and Development</u>
ATTENTION		
COPY TO	Attached Distribution	

Attached please find a copy of the material balance for the period March 31 through April 30, 1947.

This is the first time this material balance has been issued. The grams of X are not shown for security reasons but will be shown instead of the X-assay as soon as permission is obtained. A "percent total T" and "percent total X" are given rather than precision figures for the T and X measurements. As soon as tests can be made to establish the accuracy and/or precision of these figures, the precision figures will be substituted for the "percent total".

Although the percent loss is only .07% of the total T handled, the apparent loss was actually 1.07 kg. of T. The loss occurs largely from activated alumina and carbon. Checks revealed the figures on the 4-30-47 inventory as originally submitted by the Development Department listed material on hand at the Development Department which had been transferred during April. Corrections were made.

The procedures found to be successful with other units handling contaminated materials were extended during April to cover the Design and Development Department. These transfer and inventory procedures should aid the accounting for T and X in this balance area.

URANIUM CONTROL AND INSPECTION DEPARTMENT

Frank Mills  
Frank Mills  
Accountability Section

Approved by

R. W. Levin  
R. W. Levin

FM:ovd

~~SECRET~~

MATERIAL BALANCE FOR DESIGN AND DEVELOPMENT DEPARTMENT - April 1-30, 1947

April 1947					3-31-47 to Date 1947					
Name of Material	Quantity	Kg. "gm"	% Total "gm"	Weighted Av. "X" Assay	% Total "X"	Quantity	Kg. "gm"	% Total "gm"	Weighted Av. "X" Assay	% Total "X"
Inventory 3-31-47		*1,507.291	100.00	1138773	99.98		*1,507.291	100.00	1138773	99.98
Received from Cont. Waste	4951.5	.065	-	2288735	.02	4951.5	.065	-	2288735	.02
Total to Account For		1,507.356	100.00	1138773	100.00		1,507.356	100.00	1138773	100.00
Inventory 4-30-47		1,398.767	92.80	1138963	94.63		1,398.767	92.80	1138963	94.63
Shipped to Cont. Waste		107.326	7.12	1126122	4.96		107.326	7.12	1126122	4.96
Samples Shipped Other Material		.188	.01	8983334	.20		.188	.01	8983334	.20
Shipped		-	-	-	-		-	-	-	-
Total		1,506.281	99.93	1108760	99.79		1,506.281	99.93	1108760	99.79
Accounted For		+ 1.076	+ .07	1136031	+ .21		+ 1.076	+ .07	1136031	+ .21
Unaccounted For										
Limit of Error Allowed										
Error Allotted										

\* 3-31-47 Inventory. This inventory was understated in March; correction included hereon.